

## IN THE CLAIMS

1. (Previously presented) An incoming message alarming system, comprising:

a wireless communication system for receiving an incoming message from a calling mobile communication terminal and transmitting base alarm information including an identification of the calling mobile communication terminal; and

a messenger service system for receiving the base alarm information from the wireless communication system and informing a called subscriber of arrival of the incoming message through a messenger service.

2. (Currently amended) The incoming message alarming system of claim 1, wherein the wireless communication system comprises:

a base station for receiving the incoming message from the calling mobile communication terminal;

a mobile switching center for receiving the incoming message from the base station and transmitting the base alarm information to a messenger service system; and

a hHome location register for storing location information of the called subscriber, subscriber information on whether or not the called subscriber is an incoming message alarming service subscriber, and flag information indicating an activation state of the incoming message alarming service, and wherein the messenger service system comprises:

a messenger server for receiving the base alarm information from the wireless communication system and transmitting incoming message alarming information indicating arrival of the incoming message to the called mobile communication terminal; and

a messenger information database for storing an internet protocol (IP) address and a messenger identification (ID) of the called subscriber,

wherein the messenger server informs the called subscriber of the incoming message's arrival by using the IP address.

3. (Previously presented) The incoming message alarming system of claim 1, wherein the messenger service system comprises a messenger server for receiving the base alarm information from the wireless communication system and transmitting incoming message alarming information indicating arrival of the incoming message to the called mobile communication terminal, and wherein the messenger server comprises a messenger information database for storing an IP address and a messenger ID of the called subscriber.

4. (Previously presented) The incoming message alarming system of claim 2, wherein the messenger server asks the called subscriber whether to use the incoming message service and stores resultant information on whether to use the incoming message service ("use information") in the messenger information database.

5. (Previously presented) The incoming message alarming system of claim 4, wherein the flag information is updated by the use information.

6. (Previously presented) The incoming message alarming system of claim 5, wherein the messenger server transmits the incoming message alarming information to the called subscriber, with reference to the flag information, when the incoming message alarming service has been activated.

7. (Previously presented) The incoming message alarming system of claim 5, wherein the messenger server temporarily stores the incoming message alarming information, with reference to the flag information, when the incoming message alarming service has not been activated.

8. (Previously presented) A wireless communication system, comprising:

a base station for receiving an incoming message from a calling mobile communication terminal; and

a mobile switching center for receiving the incoming message from the base station and transmitting base alarm information to a messenger service system.

9. (Previously presented) The wireless communication system of claim 8, wherein the base alarm information is at least one of identifications of a calling mobile communication terminal sending the incoming message and the called mobile communication terminal, if the incoming message is a call, and is at least one of identifications of a calling mobile communication terminal and the called mobile communication terminal, and the content of a short message, if the incoming message is the short message.

10. (Previously presented) The wireless communication system of claim 8, wherein the mobile switching center temporarily stores the base alarm information when the base alarm information is not able to be transmitted to the messenger service system.

11. (Previously presented) A messenger service system, comprising:

a messenger server for transmitting to a called mobile communication terminal incoming message alarming information indicating arrival of an incoming message

transmitted from a calling mobile communication terminal;  
and

a messenger information database for storing an IP address and a messenger ID of the called subscriber,  
wherein the messenger server informs the called subscriber of the incoming message's arrival by using the IP address.

12. (Previously presented) The messenger service system of claim 11, wherein the messenger server transmits the incoming message alarming information through internet to the called subscriber who has logged in a messenger service.

13. (Previously presented) The messenger service system of claim 11, wherein the messenger server temporarily stores the incoming message alarming information when the incoming message alarming information is not able to be transmitted to the called subscriber.

14. (Previously presented) The messenger service system of claim 11, wherein the incoming message alarming information is at least one of an identification of a calling mobile communication terminal sending the incoming message and information indicating the incoming message's arrival, if the incoming message is a call, and is at least one of an identification of the calling mobile communication terminal and the content of a short message, if the incoming message is the short message.

15. (Previously presented) A messenger service system, comprising a messenger server for transmitting to a called mobile communication terminal incoming message alarming information indicating arrival of an incoming message transmitted from a calling mobile communication terminal and wherein the messenger server comprises a

messenger information database for storing an IP address and a messenger ID of the called subscriber.

16. (Previously presented) The messenger service system of claim 15, wherein the messenger server transmits the incoming message alarming information through internet to the called subscriber who has logged in a messenger service.

17. (Previously presented) The messenger service system of claim 15, wherein the messenger server temporarily stores the incoming message alarming information when the incoming message alarming information is not able to be transmitted to the called subscriber.

18. (Previously presented) A method for alarming an incoming message of a mobile communication terminal, comprising:

- transmitting base alarm information including an identification of a called mobile communication terminal;
- receiving the base alarm information and searching an IP address corresponding to the identification of the called mobile communication terminal; and
- alarming arrival of the incoming message to a called subscriber by using the searched IP address through a messenger service.

19. (Previously presented) The method of claim 18, wherein said transmitting base alarm information comprises:

- receiving an incoming message from a calling mobile communication terminal;
- checking whether or not the called subscriber is an incoming message alarming service subscriber;
- if the called subscriber is an incoming message alarming service subscriber, checking whether or not the incoming message alarming service has been activated; and

if the incoming message alarming service has been activated, transmitting the base alarm information.

20. (Previously presented) The method of claim 18, wherein said alarming arrival of the incoming message to a called subscriber comprises:

- checking whether or not the called subscriber has logged in the messenger service;

- if the called subscriber has logged in the messenger service, checking whether or not the called subscriber wants to use the incoming message alarming service;

- if the called subscriber wants to use the incoming message alarming service, transmitting the incoming message alarming information to a personal computer which the called subscriber has logged in; and

- creating an incoming message alarming window indicating the incoming message's arrival.

21. (Previously presented) The method of claim 19, wherein said transmitting base alarm information further comprises:

- if the incoming message alarming service has not been activated, temporarily storing the base alarm information until the incoming message alarming service is activated; and

- when the incoming message alarming service is activated, transmitting the base alarm information.

22. (Previously presented) The method of claim 20, wherein said alarming arrival of the incoming message to a called subscriber further comprises:

- if the incoming message alarming service has not been activated, temporarily storing the incoming message alarming information until the incoming message alarming service is activated; and

when the incoming message alarming service is activated,  
transmitting the incoming message alarming information to  
the personal computer.